Index of Claims

10/758,035

Examiner

Stevan A. Resan

Applicant(s)/Patent under Reexamination

KIM ET AL.

Art Unit

1773

| √ | Rejected |
|---|----------|
| = | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| Z | Non-Elected  |
|---|--------------|
|   | Interference |

| A | Appeal   |
|---|----------|
| o | Objected |

| Cla  | Claim Date |  |              |          |          | $\neg$          |          | Cla      | im        | Date     |   |               |          |                 |          |          | Cla      | aim      | Date     |           |                |                 |       |            |                 |          |          |          |          |          |          |          |               |
|--|------------|--|--------------|----------|----------|-----------------|----------|----------|-----------|----------|---|---------------|----------|-----------------|----------|----------|----------|----------|----------|-----------|----------------|-----------------|-------|------------|-----------------|----------|----------|----------|----------|----------|----------|----------|---------------|
|  |            | ìC   |              |          |          |                 |          |          |           |          |   |               |          |                 |          | $\Box$   | $\Box$   |          | T        | Т         | П              |                 |       |            |                 | П        | П        | П        |          |          | Т        | П        |               |
| ळ  | Original   | 3000   | 1            |          |          |                 |          |          |           | ı        |   | Final         | Original |                 |          | - 1      | - [      |          |          |           |                |                 | व     | Original   |                 |          | - [      |          | I        |          | - [      |          |               |
| Final  | jr.        | رسيل   | F            |          |          |                 |          |          |           | ١        |   | ᇤ             | rig      |                 |          | - 1      |          |          |          |           |                |                 | Final | )rig       |                 |          |          |          |          |          | - [      | l        | ŀ             |
|  | 0          | ps   | 1            |          |          |                 |          |          |           | 1        |   |               | O        |                 |          |          |          |          |          |           | 1              |                 |       | O          |                 |          |          |          | - 1      |          |          |          | ļ             |
|  | 1          | ÷  | ι_           |          |          | П               |          | $\neg$   |           |          |   |               | 51       |                 |          | 寸        |          | $\neg$   | $\top$   | 1         |                |                 |       | 101        | П               |          | 一        |          | 一        |          | T        | $\neg$   |               |
|  | 2          | ۱'n  | П            |          |          | П               |          | T        | ヿ         |          |   |               | 52       | П               |          | $\neg$   | T        | $\neg$   | $\neg$   | 1         |                |                 |       | 102        |                 | П        | ヿ        |          |          |          |          | ヿ        | $\neg$        |
|  | 3          | Ħ  |              |          |          |                 |          |          |           |          |   |               | 53       |                 |          |          | _        | 7        |          | 1         |                |                 |       | 103        |                 | $\Box$   | 一        | ヿ        |          | $\neg$   | $\neg$   | ヿ        | $\neg$        |
|  | 4          | Ħ  |              |          |          | П               |          | $\neg$   | $\exists$ | $\neg$   |   |               | 54       |                 |          | T        | T        | T        | $\top$   | $\top$    | П              |                 |       | 104        |                 |          |          |          |          |          |          |          |               |
|  | 5          | Ħ  | Г            |          |          | П               |          | コ        | $\neg$    | $\dashv$ |   |               | 55       |                 |          | T        | 7        | 寸        | 十        | 1         |                |                 |       | 105        |                 |          | T        | T        | ヿ        | $\neg$   |          | ヿ        |               |
|  | 6          | Ħ  | Г            |          |          |                 |          | $\neg$   | $\exists$ | $\neg$   |   |               | 56       |                 | $\neg$   | 寸        | T        | 7        |          | 1         |                |                 |       | 106        |                 |          | ╗        | $\dashv$ | 寸        | $\neg$   | 寸        | ヿ        | $\neg$        |
|  | 7          | Ħ  | _            |          |          | $\Box$          |          | $\neg$   | 一         | $\neg$   |   |               | 57       |                 | ヿ        | T        | 7        | T        | $\top$   | $\top$    | П              |                 |       | 107        |                 | $\neg$   | 寸        | $\neg$   | ヿ        | $\neg$   | ヿ        | $\neg$   | $\neg$        |
|  | 8          | Ħ,   | Г            | П        |          | П               | $\neg$   | ᅥ        | $\neg$    | ╗        |   |               | 58       |                 | ヿ        | 寸        | $\neg$   | $\top$   | $\top$   | $\top$    | П              |                 |       | 108        |                 |          | 一        | $\neg$   | 寸        |          | $\neg$   | $\neg$   |               |
|  | 9          | ٧  | $\vdash$     |          |          | $\Box$          | ヿ        | ヿ        | $\dashv$  | ╗        |   |               | 59       |                 | ╗        | 寸        | 7        | 7        |          | 1         | $\Box$         |                 |       | 109        |                 |          |          | 寸        |          |          | 7        | $\neg$   | $\neg$        |
|  | 10         | 1  |              |          |          | Ħ               |          | $\neg$   | $\neg$    | $\neg$   |   |               | 60       |                 |          | $\neg$   | 寸        | $\dashv$ | 1        | 1         | $\Box$         |                 |       | 110        |                 |          | 寸        | 寸        | 一        |          | 寸        | ヿ        | $\neg$        |
|  | 11         | $\vdash$   |              |          |          | П               | $\neg$   | 一        | ヿ         | $\neg$   |   |               | 61       | П               | 寸        | 寸        | 7        | _        | 1        | 1         | П              |                 |       | 111        |                 |          | $\neg$   | 寸        | ヿ        |          | 寸        | ヿ        |               |
|  | 12         | T  | T            | $\Box$   |          | $\Box$          | $\neg$   | $\neg$   | $\dashv$  | ┪        |   |               | 62       | П               | $\neg$   | 一        | $\dashv$ | $\dashv$ | 十        | T         | П              |                 |       | 112        | $\Box$          | $\vdash$ | $\neg$   | $\neg$   | _        | $\neg$   | 7        | $\dashv$ | $\overline{}$ |
|  | 13         | $\vdash$   | Ι            | $\vdash$ | _        | $\vdash$        |          | $\dashv$ | _         | $\dashv$ |   |               | 63       | Н               | 一        | $\dashv$ | 7        | $\dashv$ | _        | $\top$    | П              |                 |       | 113        | П               | $\dashv$ | 寸        | $\dashv$ | ┪        | $\dashv$ | 7        | $\dashv$ | $\neg$        |
|  | 14         | $\vdash$   | $\vdash$     | П        |          | H               | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ |   |               | 64       | Н               | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | 十        | $\dagger$ | T              |                 |       | 114        | М               | $\Box$   |          | 7        | 7        | $\dashv$ | 十        | ヿ        | $\neg$        |
|  | 15         | t  | $\vdash$     |          |          | Ħ               | 7        | $\dashv$ | $\dashv$  | $\dashv$ |   |               | 65       | H               | 寸        | $\dashv$ | 寸        | $\top$   | 十        | 1         | $\vdash$       |                 |       | 115        | _               | $\neg$   | 7        | ヿ        | _        | _        | 7        | ┪        | $\neg$        |
|  | 16         | T  | $\vdash$     | H        |          | $\vdash$        | $\dashv$ |          | $\dashv$  | $\dashv$ |   |               | 66       | H               | -        | $\dashv$ | -        | +        | 1        | +         | Н              |                 |       | 116        | Н               | $\dashv$ | +        | 十        | -        | -        |          | 一        | $\dashv$      |
|  | 17         | t  |              |          |          | $\vdash$        |          | ┪        | 寸         | $\dashv$ |   | $\overline{}$ | 67       | Н               | 寸        | 寸        | 寸        | $\dashv$ | 十        |           | 1              |                 |       | 117        |                 | $\neg$   | 7        | $\dashv$ | 1        | $\dashv$ | T        | 寸        | $\dashv$      |
|  | 18         | ╁─   | $\vdash$     | -        | _        |                 | -        |          | -         | -        |   |               | 68       | H               | -        | _        | $\dashv$ | $\dashv$ |          | +-        | 1              |                 |       | 118        |                 | $\dashv$ | $\dashv$ |          | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\neg$        |
|  | 19         | ╁  | $\vdash$     | -        |          | $\vdash$        | ┪        | $\dashv$ | -         | $\dashv$ |   |               | 69       | Н               | ᅥ        | +        | 十        | $\dashv$ | +        | +-        | $\vdash$       |                 |       | 119        |                 | $\dashv$ | 十        | 十        | 7        | 一        | 7        | ᅥ        | $\neg$        |
|  | 20         | <del>                                     </del> | -            | -        |          | $\vdash$        | -        | $\dashv$ | -         | $\dashv$ |   |               | 70       | H               | ᅥ        | $\dashv$ | ┪        | _        | ╅        | +-        | +              |                 |       | 120        |                 | 7        | 7        | +        | _        | $\dashv$ | $\dashv$ | ┪        | $\dashv$      |
|  | 21         | 1  |              | _        |          | $\vdash$        | $\neg$   | ᅥ        | $\dashv$  | $\dashv$ |   |               | 71       | $\vdash$        | $\dashv$ | _        | 十        | _        | $\dashv$ | +-        | 1              |                 |       | 121        | Н               | $\dashv$ | $\dashv$ | $\dashv$ | _        | $\dashv$ | $\dashv$ | 十        | $\dashv$      |
| -  | 22         | $\vdash$   | $\vdash$     | $\vdash$ | -        |                 |          | -        | 寸         | $\dashv$ |   |               | 72       | Н               | $\dashv$ | _        | _        | +        |          | +         | +              |                 |       | 122        |                 | -        | $\dashv$ | $\dashv$ | 1        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$      |
| $\vdash$   | 23         | H  | $\vdash$     | -        | =        |                 |          | ᅥ        | ┰         | $\dashv$ |   |               | 73       | Н               | $\dashv$ | -+       | ╅        | +        | +        | _         | +              |                 |       | 123        |                 | +        | -        | 7        | 7        |          | +        | 一        | ᅱ             |
| -  | 24         | ╁  | ┢            | _        | -        | $\vdash$        | -        | ᅱ        | _         | $\dashv$ |   |               | 74       | Н               | $\dashv$ | $\dashv$ | $\dashv$ | +        | +        | +         | $\vdash$       |                 |       | 124        |                 | 十        | _        | ┰        | -        | 十        | $\dashv$ | 十        | $\dashv$      |
| <b>-</b>   | 25         | ┢  | $\vdash$     | $\vdash$ | -        | $\vdash$        | $\dashv$ | 一        | $\dashv$  | $\dashv$ |   |               | 75       | Н               | $\dashv$ | $\dashv$ | +        | $\dashv$ | +        | +-        | $\vdash$       |                 |       | 125        | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ | -        | $\dashv$ | $\dashv$ | 十        | $\dashv$      |
|  | 26         | H  |              | $\vdash$ | $\vdash$ | $\dashv$        | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ |   |               | 76       | Н               | $\dashv$ | $\dashv$ | $\dashv$ | +        | $\dashv$ | ╁         | ╁              |                 |       | 126        | $\dashv$        | +        | -        | $\dashv$ | -        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$      |
|  | 27         | ╁┈   | $\vdash$     | $\vdash$ | -        | $\dashv$        | _        | $\dashv$ | -         | $\dashv$ |   |               | 77       | Н               | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | +        | ╁         | $\vdash$       |                 |       | 127        | -               | $\dashv$      |
|  | 28         | ╁  | -            | $\vdash$ | -        | $\vdash$        | -        | $\dashv$ | $\dashv$  | $\dashv$ |   |               | 78       | Н               | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | +        | +         | $\vdash$       |                 |       | 128        | $\vdash$        | $\dashv$      |
| _  | 29         | ╁  | $\vdash$     | -        | _        | -               | -        | $\dashv$ | -+        | $\dashv$ |   |               | 79       | Н               | ┪        | $\dashv$ | $\dashv$ | +        | +        | ╁╌        | H              |                 |       | 129        |                 | $\dashv$ | $\dashv$ | $\dashv$ | +        | $\dashv$ | $\dashv$ | $\dashv$ | -             |
| -  | 30         | ╁  | _            |          |          | $\dashv$        | $\dashv$ | -        |           | -1       |   |               | 80       | H               | +        | $\dashv$ | +        | +        | +        | ╁╌        | +              |                 |       | 130        |                 | +        | +        | +        | -        | +        | +        | $\dashv$ | -             |
| -  | 31         | -  | -            | -        | -        | $\dashv$        | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ |   |               | 81       | H               | -        | $\dashv$ | +        | $\dashv$ | ┽        | ╁         | $\vdash$       |                 |       | 131        | $\vdash$        | $\dashv$ | —             |
| -  | 32         | -  | -            | $\vdash$ | -        | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ |   |               | 82       | $\vdash$        |          | $\dashv$ | -+       | $\dashv$ |          | +         | $\vdash$       |                 |       | 132        | $\vdash$        | $\dashv$ | $\dashv$ | -        |          | -        | $\dashv$ | $\dashv$ | $\dashv$      |
|  | 33         | <del> </del>                                     | $\vdash$     | $\dashv$ |          | $\vdash$        |          | $\dashv$ | $\dashv$  | $\dashv$ |   |               | 83       | $\vdash \vdash$ | -        | $\dashv$ | $\dashv$ | $\dashv$ | +        | +         | $\vdash$       |                 |       | 133        | $\vdash$        | $\dashv$ | $\dashv$ | -        |          | -        | +        | -        |               |
|  | 34         | -  | -            | $\vdash$ | $\dashv$ | $\vdash$        | $\dashv$ | $\dashv$ | -+        | $\dashv$ |   | -             | 84       | $\vdash \vdash$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | +        | +         | $\vdash$       |                 |       | 134        | $\vdash$        | +        | $\dashv$      |
| <del>                                     </del> | 35         | -  | $\vdash$     | $\vdash$ | $\dashv$ | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ |   |               | 85       | $\vdash \vdash$ | $\dashv$ | $\dashv$ | $\dashv$ | +        | +        | +         | $\vdash$       |                 |       | 135        | $\vdash$        | $\vdash$ | $\dashv$      |
| $\vdash$   | 36         | <del> </del>                                     | $\vdash$     | $\vdash$ | -        | $\vdash \dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | -        |   |               | 86       | $\vdash \vdash$ | $\dashv$ | $\dashv$ | $\dashv$ | +        | +        | +         | Н              |                 |       | 136        | $\vdash$        | $\dashv$      |
| <del>                                     </del> | 37         | ⊢  |              | $\vdash$ | $\dashv$ | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$  | -        |   | _             | 87       | Н               | -        | $\dashv$ | +        | +        | +        | +         | Н              |                 |       | 137        | $\vdash$        | $\dashv$      |
| -  | 38         | $\vdash$   | <del> </del> | $\vdash$ | -        | $\vdash$        | $\dashv$ | $\dashv$ | -+        | -        |   |               | 88       | $\vdash \vdash$ | -        | $\dashv$ | -+       | +        | +-       | +         | $\vdash$       |                 |       | 138        | $\vdash \vdash$ | -+       |          |          | -        | -        | -+       | -+       | $\dashv$      |
| <del>                                     </del> | 39         | $\vdash$   | $\vdash$     | $\vdash$ | $\dashv$ | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$  |          | } |               | 89       | $\vdash \vdash$ |          | $\dashv$ | $\dashv$ | +        | +-       | +         | $\vdash$       |                 |       | 139        |                 | $\dashv$ | $\dashv$ |          |          | $\dashv$ | -+       | $\dashv$ | $\dashv$      |
|  | 40         |  | $\vdash$     |          |          | $\vdash$        |          | $\dashv$ | -+        | -        |   |               | 90       | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ | +        | +-       | +-        | Н              |                 |       | 140        | $\vdash$        | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$ | -        | $\dashv$ | ᅱ        | -             |
|  | 41         |  | -            | -        | $\dashv$ | $\dashv$        | -+       | $\dashv$ | $\dashv$  |          |   |               | 91       | $\vdash \vdash$ |          | $\dashv$ | $\dashv$ | +        | +        | +         | $\vdash$       |                 |       | 141        | $\vdash$        | $\dashv$ | $\dashv$ | +        |          | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$      |
|  | 42         | $\vdash$   | $\vdash$     | $\dashv$ | $\dashv$ |                 |          | $\dashv$ | $\dashv$  |          |   | $\dashv$      | 92       | $\vdash \vdash$ | -        | $\dashv$ | $\dashv$ | +        | +        | +-        | $\vdash$       |                 |       | 142        | $\vdash$        | $\dashv$ | -        | +        | $\dashv$ | -        | +        | $\dashv$ | $\dashv$      |
| <del>                                     </del> | 42         | <del> </del>                                     | $\vdash$     | $\vdash$ | $\dashv$ | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$  |          |   | $\dashv$      | 93       | $\vdash\vdash$  |          | $\dashv$ | ┽        | -+       | +-       | +         | $\vdash\vdash$ |                 |       | 143        | $\vdash$        | -+       | $\dashv$ |          | -+       | $\dashv$ | -+       |          | -             |
| <b>-</b>   | 44         | -  | -            | $\vdash$ | -        | $\vdash$        | $\dashv$ | -        | $\dashv$  |          |   |               | 94       | $\vdash \vdash$ | +        |          | $\dashv$ | +        | +-       | +         | $\vdash\vdash$ |                 |       |            | $\vdash$        | +        | $\dashv$ | $\dashv$ | -+       | $\dashv$ | $\dashv$ | $\dashv$ |               |
|  | 45         | -  | -            | $\dashv$ | -        | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$  |          |   |               | 95       | $\vdash \vdash$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | +-       | +         | $\vdash$       |                 |       | 144<br>145 | $\vdash$        | +        | $\dashv$ | -+       | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$      |
| <b>—</b> —                                       | 46         | <del>                                     </del> | <u> </u>     | -        | $\dashv$ | $\vdash$        | $\dashv$ | -        | $\dashv$  |          |   | -             |          | $\vdash \vdash$ | -        | -+       | $\dashv$ | +        | +-       | +         | $\vdash$       |                 |       |            | $\vdash$        | $\dashv$ | $\dashv$ | -        |          | $\dashv$ | $\dashv$ | -        | $\dashv$      |
|  | 46         | -  | $\vdash$     | $\dashv$ |          | $\vdash$        | -        |          | $\dashv$  |          |   |               | 96<br>97 | $\vdash \vdash$ | -        | $\dashv$ | +        | -+       | +        | +-        | $\vdash$       |                 |       | 146<br>147 | $\vdash$        | $\dashv$ |          | -        | -        | -+       | -+       | -        | $\dashv$      |
|  | 48         | $\vdash$   | <u> </u>     | $\vdash$ | $\dashv$ | $\dashv$        |          | $\dashv$ | +         | $\dashv$ |   |               |          | ${oxdot}$       | $\dashv$ | $\dashv$ | +        | +        | +        | +         | $\vdash$       |                 |       | 147        | $\vdash\vdash$  | $\dashv$ | $\dashv$ | $\dashv$ | -        |          | $\dashv$ |          | $\dashv$      |
| <b>—</b>   |            | $\vdash$   | $\vdash$     | -        | $\dashv$ |                 | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ |   |               | 98       | $\vdash \vdash$ |          | +        | $\dashv$ | +        |          | +-        | +              |                 |       | 148        | -               | $\dashv$ | $\dashv$ | -        | -        |          | -        | -        | ᅴ             |
| $\vdash$   | 49         |  | $\vdash$     |          | -        | $\dashv$        | $\dashv$ | $\dashv$ | $\dashv$  | 4        |   |               | 99       | $\vdash$        |          | -+       | $\dashv$ | -+       | +        | +         | Н              |                 |       | 149        |                 |          |          |          | $\dashv$ | $\dashv$ |          |          | $\dashv$      |
|  | 50         | L  | l .          |          |          |                 |          |          |           | !        | [ |               | 100      |                 |          | L        |          |          | $\bot$   |           |                | :::: <b>:</b> [ |       | 150        |                 |          |          |          |          | 1        |          |          |               |